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HICKMAN PALERMO TRUONG & BECKER/ORACLE			PHAM, CHRYSTINE	
	WAY PLACE		ART UNIT	PAPER NUMBER
SUITE 550			AKTONII	TATERNOMBER
SAN JOSE,	CA 95110-1089		2192	
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Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/040,578	LONG ET AL.			
Office Action Summary	Examiner	Art Unit			
	Chrystine Pham	2192			
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1) Responsive to communication(s) filed on 16 May 2005.					
2a)⊠ This action is FINAL . 2b)☐ Thi	s action is non-final.				
· · · ·	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims					
 4) Claim(s) 1-32 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-32 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 					
Application Papers					
9) The specification is objected to by the Examiner.					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s)					
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date					
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date 04/18/05 &03/28/05. 		atent Application (PTO-152)			

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DETAILED ACTION

1. This action is responsive to Amendment filed on May 16th 2005. Claims 1, 13, 17, 29, and 32 have been amended. Claims 1-32 are presented for examination.

Response to Amendment

2. In view of the amendment of claims 13, 29, and 32 to overcome rejection of claims under 35 USC 112, second paragraph, rejection of claims under 35 USC 112, second paragraph is hereby withdrawn.

Response to Arguments

3. Applicant's arguments with respect to claims 1-32 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

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5. Claims 1-15, 17-31 are rejected under 35 U.S.C. 102(e) as being anticipated by Ng et al. (US 6385618 B1, hereinafter Ng et al.).

Claim 1

Ng et al. teach a method of specifying a structure (see at least 116 FIG.1 & associated text; collection Orders_for_Customer FIG.4B & associated text), within a computer system (see at least 100 FIG.1 & associated text), of an instance of a class (see at least table, rows, customer information, customer table col.1:60-col.2:11; int Cust_id; 420 FIG.4B & associated text), the method including the step of:

- o associating with said instance of said class an attribute that is not in said class or any superclass of said class (see at least collection Orders_for_Customer; int Cust_id; 420 FIG.4B & associated text), thereby establishing for said instance said structure that includes storage for data associated with said attribute (see at least collection Orders_for_Customer; int Cust_id; 420 FIG.4B & associated text); and
- o wherein associating said attribute with said instance does not cause said attribute to become an attribute of said class (see at least Class 420, customer table 202, collection of objects, orders, particular customer, grouping of instances col.6:30-67).

Claim 2

The rejection of base claim 1 is incorporated. *Ng et al.* further teach wherein the step of associating further includes the steps of:

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o establishing a property bundle that is associated with one or more attributes that are not in said class or any super class of said class (see at least collection Orders_for_Customer; int Cust_id; 420 FIG.4B & associated text; customer 302, foreign key 306, order 304 FIG.3 & associated text); and

o associating said instance with said property bundle (see at least collection

Orders_for_Customer; int Cust_id; 420 FIG.4B & associated text; customer 302, foreign

key 306, order 304 FIG.3 & associated text).

Claim 3

The rejection of base claim 2 is incorporated. Ng et al. further teaches storing within a relational database, objects that define said instance, said property bundle, and said one or more attributes (see at least relational database, tables, rows, customer table col.1:60-col.2:11).

Claim 4

The rejection of base claim 1 is incorporated. *Ng et al.* further teaches maintaining an object relational mapping system that indicates a correlation between said instance and data stored in a relational database (see at least *object-relational mapping tools, relational database, tables, rows, customer table, order table col.1:60-col.2:11).*

Claim 5

The rejection of base claim 1 is incorporated. Ng et al. further teach wherein said step of associating includes establishing a pointer from said instance to a property bundle (see at least 310 FIG.3 & associated text; iterator getOrdersForCustomer() FIG.4B & associated text).

Claim 6

The rejection of base claim 5 is incorporated. Ng et al. further teach wherein said step of associating includes establishing a pointer from said attribute to said property bundle (see at least Class Order 424, int Order_id, Customer_for_Order FIG.4B & associated text).

Claim 7

The rejection of base claim 1 is incorporated. Ng et al. further teach wherein a property class contains said attribute (see at least Class Order 424 FIG.4B & associated text).

Claim 8

The rejection of base claim 1 is incorporated. *Ng et al.* further teaches associating a key with said attribute wherein said key identifies said attribute (see at least *Class Order 424, int Order_ID, str Date FIG.4B & associated text*).

Claim 9

The rejection of base claim 8 is incorporated. Ng et al. further teaches wherein said key is a user-defined key (see at least Class Order 424, int Order_ID, str Date FIG.4B & associated text; programmer, customization col.6:5-30).

Claim 10

The rejection of base claim 1 is incorporated. Ng et al. further teaches maintaining a

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table that includes an entry that indicates that said instance is associated with said attribute (see

at least Class 420, customer table 202, collection of objects, orders, particular customer,

grouping of instances col.6:30-67).

Claim 11

The rejection of base claim 10 is incorporated. Ng et al. also further teaches maintaining

said entry to include a key that identifies said attribute (see at least Class Order 424, int

Order_ID, str Date FIG.4B & associated text).

Claim 12

The rejection of base claim 10 is incorporated. Ng et al. further teaches maintaining said

table externally to said instance (see at least Class 420, customer table 202 col.6:30-67).

Claim 13

The rejection of base claim 10 is incorporated. Ng et al. further teaches maintaining said

table internally to said instance (see at least Class 420, customer table 202, collection of objects,

orders, particular customer, grouping of instances col.6:30-67; customer 302, hash table 310

FIG.3 & associated text).

Claim 14

The rejection of base claim 1 is incorporated. Ng et al. further teaches storing into said instance a hash table; and locating an entry in said hash table for said attribute (see at least customer 302, hash table 310 FIG.3 & associated text).

Claim 15

The rejection of base claim 14 is incorporated. *Ng et al.* do not expressly disclose receiving data that is designated as a key for locating said entry in said hash table; and using said data as said key to locate said entry without determining whether said data conforms to software rules. However, this feature is deemed inherent in the teaching of *Ng et al.* since the retrieval of data stored in a hash table requires receiving a key value by which a key comparison can be made by the hash table's search algorithm.

Claim 17

Ng et al. disclose a computer-readable medium (see at least 104 FIG.1 & associated text) carrying instructions (see at least 114 FIG.1 & associated text) for specifying a structure (see at least 116 FIG.1 & associated text; collection Orders_for_Customer FIG.4B & associated text), within a computer system (see at least 100 FIG.1 & associated text), of an instance of a class (see at least table, rows, customer information, customer table col.1:60-col.2:11; int Cust_id; 420 FIG.4B & associated text), the instructions including instructions for performing the step of:

o associating with said instance of said class an attribute that is not in said class or any superclass of said class (see at least collection Orders_for_Customer; int Cust id; 420

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FIG.4B & associated text), thereby establishing for said instance said structure that includes storage for data associated with said attribute (see at least *collection*Orders for Customer; int Cust id; 420 FIG.4B & associated text); and

o wherein associating said attribute with said instance does not cause said attribute to become an attribute of said class (see at least *Class 420, customer table 202, collection of objects, orders, particular customer, grouping of instances* col.6:30-67).

Claims 18-31

Claims recite limitations, which have been addressed in claims 2-15, therefore, are rejected for the same reasons as cited in claims 2-15.

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claims 16, and 32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ng et al. in view of The Java Virtual Machine Specification (The class File Format, http://java.sun.com/docs/books/vmspec/html/ClassFile.doc.html), hereinafter, JVM Spec.

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Claim 16

The rejection of base claim 1 is incorporated. *Ng et al.* do not expressly disclose wherein the class is a file type and said instance is a tile of said file type in a file system wherein the step of associating includes associating with said file of said file type an attribute that is not associated with said file type or any super class of said file type. However, *JVM Spec* discloses a class is a file type and said instance is a file of said file type in a file system (e.g., see *section 4.1 ClassFile* pages 1-6) wherein the step of associating includes associating with said file of said file type an attribute that is not associated with said file type or any super class of said file type (e.g., see section *fields[]* page 5). It would have been obvious to one of ordinary skill in the pertinent art at the time the invention was made to incorporate the teaching of *JVM Spec* into that of *Ng et al.* for the inclusion of an instance of a file type. And the motivation for doing so would have been to enable class analysis (without loading the class) and synthesis.

Claim 32

The rejection of base claim 17 is incorporated. Claim recites limitations, which have been addressed in claim 16, therefore, is rejected for the same reasons as cited in claim 16.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within

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SIX MONTHS from the date of this final action.

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TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than

Any inquiry concerning this communication or earlier communications from the
examiner should be directed to Chrystine Pham whose telephone number is 571-2723702. The examiner can normally be reached on Mon-Fri, 8:30am-5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tuan Q. Dam can be reached on 571-272-3695. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

CP

August 7, 2005

TUAN DAM

SUPERVISORY PATENT EXAMINER